

## A Geospatial Decision Support System Toolkit, Phase II

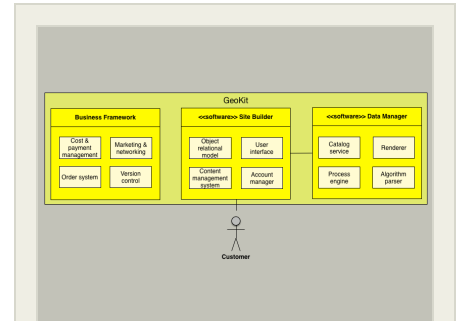
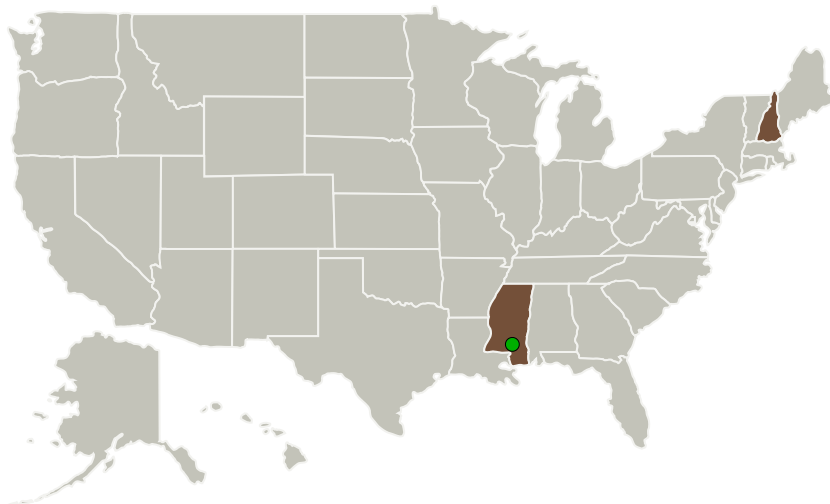
Completed Technology Project (2015 - 2017)



## Project Introduction

We propose to build and commercialize a working prototype Geospatial Decision Support Toolkit (GeoKit). GeoKit will enable scientists, agencies, and stakeholders to create and deploy their own web based applications containing maps, forms, algorithms, and a rich set of functionality related to visualization, analysis, reporting, querying, and publication of geospatial data and information. GeoKit is intended for customers who are experts in a particular area or problem; have in mind a set of users who will use their site to address a specific problem; have in mind a particular workflow that they want the users to perform and datasets they want to utilize; do not necessarily know or want to know about geospatial data types, formats, operations, and structure; and do not necessarily know or want to know how to construct a web-based application. The mission of GeoKit is to reduce and eventually remove technical barriers that limit direct stakeholder control over the creation and management of geospatially enabled web applications. AGS has worked on numerous geospatial web based applications and services, and continues to have active projects in this area. Our Phase II GeoKit proposal is to create the technological foundation for the distributed "open source DST development framework" that NASA envisions as described in the 2015 Subtopic S5.02 SBIR solicitation.

## Primary U.S. Work Locations and Key Partners



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Organizations Performing Work	Role	Type	Location
Applied Geosolutions, LLC	Lead Organization	Industry	Durham, New Hampshire
● Stennis Space Center(SSC)	Supporting Organization	NASA Center	Stennis Space Center, Mississippi

Primary U.S. Work Locations	
Mississippi	New Hampshire

## Project Transitions

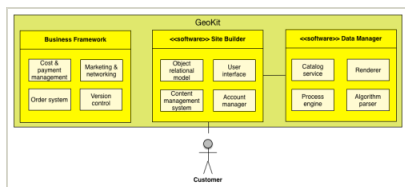
▶ **May 2015:** Project Start

✓ **May 2017:** Closed out

**Closeout Documentation:**

- Final Summary Chart(<https://techport.nasa.gov/file/137783>)

## Images

**Briefing Chart Image**

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(<https://techport.nasa.gov/image/130601>)

## Organizational Responsibility

**Responsible Mission Directorate:**

Space Technology Mission Directorate (STMD)

**Lead Organization:**

Applied Geosolutions, LLC

**Responsible Program:**

Small Business Innovation Research/Small Business Tech Transfer

## Project Management

**Program Director:**

Jason L Kessler

**Program Manager:**

Carlos Torrez

**Principal Investigator:**

Stephen C Hagen

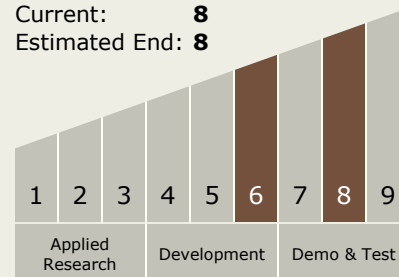
**Co-Investigator:**

Stephan Hagen



## Technology Maturity (TRL)

Start: **6**  
Current: **8**  
Estimated End: **8**



## Technology Areas

### Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
  - └ TX11.4 Information Processing
    - └ TX11.4.4 Collaborative Science and Engineering

## Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System